MODEL OR END ITEM	NEXT ASSY	MODULE OR SER NO.	REQD PER MODULE OR END ITEM
LEM	LDW300-28800	LTA-1R(14)	2
		LEM-6(36)	2
		LEM-5(35)	2
		LEM-4(34)	2
		SCS(70)	2
		FCI (FC)	2
		DMSM(340)	1
		QUAL TEST(70)	2
		LEM-3(33)	4
		LEM-2(32)	4
		LEM-1(31)	4
	LDW300-28800	LTA-8(18)	4
	LDW300-21800	FMES	4
		LMS-2	4
		DMSM	2
		LMS-1	4
		CRIT. ENV. TEST	6
		MIT LAB SEE NOTE #1	4
LEM	LDW300-21800	LTA-1 (11)	4

PART NO.	GAEC SCH NO.
LDW300M11809-1	34

32

SH REV STATUS: FOR DESCRIPTION OF REV SEE SUBQ SH								
SHEET	1.00	1.10	2.00		3.00			
REV	A	A						
SHEET								
REV								
SHEET								
REV								

LAST SECT LTR USED	A
LAST DASH NO. USED	-1

GRUMMAN REL INFO

PRIM NO.	LE(003)
257	PP12

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCE UNLESS SPECIFIED
FRACTIONS - DECIMALS - ANGLES
±1/64 ±.010 ±1/2°

ORIG DWG AUTH
DETAIL SPEC REQUIREMENT
CLASS II ENGRG CHANGE
CLASS I ENGRG CHANGE

CONTRACT NO. NAS 9-1100 | LINE ITEM # 2 | DOCUMENTATION TYPE II

DRAWN BY	P. TAORMINA 11/17/66	WEIGHTS	John Kelly 1-31-66
LAYOUT BY	G. KAMMERER 11/14/66	RELIABILITY	Spencer 2-1
CHECKED BY	G.S.Y. 1-24-66		
GRP. LEADER	11/21/66		
STRUCTURES	M. Feb 1/26	PROJ ENGR	2/2
STRUCTURES	Hilderman 1-26	REL GROUP	Spencer 2/3

GRUMMAN AIRCRAFT ENGRG CORP
BETHPAGE, L. I., NEW YORK

PLUG
STAB. & CONTROL-TRANSLATION CONT.
MODE SHIFT HANDLE

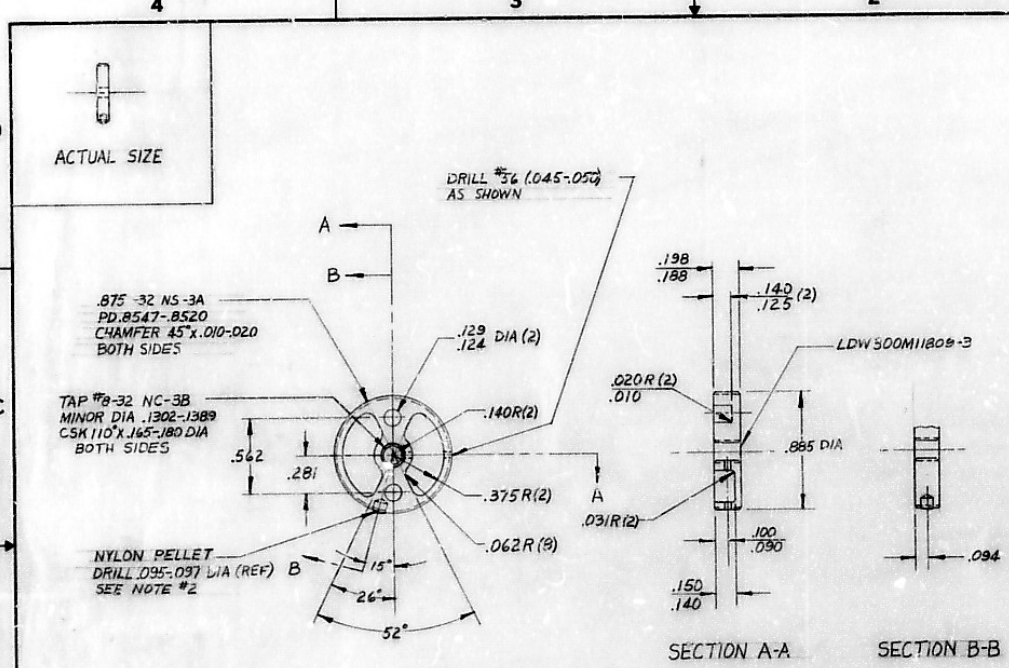
SIZE	CODE IDENT NO.		
B	26512	LDW300M11809	A

SCALE NONE | SHEET 1.00 OF 4

ENG 77.1 9-64

01

NAS 9-1100



NOTES:
1. DELIVER TO M.I.T. CAMBRIDGE, MASS. AS AUTHORIZED BY CCA-31 (LTR BG54 65-97).
2. LOCKING DEVICE PER MIL-F-18240 TYPE A

LDW300M11809-1 ASSY

MANUFACTURING OPERATIONS
UNLESS OTHERWISE SPECIFIED
NOTES CHECKED ✓ APPLY TO THIS DWG.

- PART NUMBER AND ALL OTHER MARKINGS IN REGION MARKED USE BOTH SIDES IF NECESSARY.
- FILLET AND INSIDE CORNER RADII TOLERANCES .062R TO .093R ± .010; .093R TO .250R ± .015; OVER .250R ± .030
- DEPTH SHOWN FOR TAPPED HOLES IS FULL THDS. 2-3 IMP THDS. BEYOND PERMISSIBLE.
- EXTERNAL THREAD LENGTH SHOWN INCLUDES 2 IMPERFECT THREADS MAX.
- DO NOT CADMIUM PLATE & PAINT HOLES OR SURFACES MARKED WITH DOUBLE ASTERISK.
- MISMATCH STEP OF ± .005 PERMISSIBLE DUE TO CHANGE OF CUTTERS AT INSIDE INTERSECTING SURFACES.
- DIAMETERS MARKED MUST BE CONCENTRIC WITHIN FULL INDICATOR READING
- HOLES MUST BE KEPT FREE OF CHROME PLATING SOLUTION.
- ALL DIMENSIONS SHOWN TO BE MET AFTER CADMIUM PLATING. THICKNESS OF PLATE .0003 MIN. TO .0005 MAX. MIN. THICKNESS TO BE .0002 ON THREADED AREAS. NO ALLOWANCE FOR PLATING IN HOLES
- 125 SURFACE ROUGHNESS INCLUDING REAMED HOLES PER MIL-STD-10 ✓
- 250 FOR ALL DRILLED HOLES
- REMOVE ALL BURRS. BREAK ALL EDGES .005-.015 ✓
- INSPECTION INFORMATION MINIMUM PERMISSIBLE AVERAGE EDGE DISTANCE MARKED IS
- SYMBOL ✓ DENOTES SURFACE TO BE MACHINED
- UNLESS OTHERWISE SPECIFIED TOLERANCE ON FLANGES IS ± 1/32
- LENGTHS OF AN, NAS & MS AL ALY RIVETS SHORTER THAN 1 INCH ARE NOT SPECIFIED.
- TOLERANCE ON LOFTED CONNECTIONS IS

GRUMMAN AIRCRAFT ENGRG CORP, BETHPAGE, L. I., NEW YORK			
LEM	SIZE C	CODE IDENT NO. 26512	LDW300M11809
MODEL OR END ITEM	SCALE 2 X		SHEET 3.00

LDW300M11809

LDW300M11809

NAS 9-1100

[redacted]

REVISIONS

CHANGE LTR	ITEM NO.	SHEET NO.	ZONE	GRUMMAN INFO ONLY	DET SPEC	CLASS I	CLASS II	ENGRG ORDER	DESCRIPTION	EFFECTIVITY	DISPOSITION OF EXISTING PARTS: REWORK	DISPOSITION OF EXISTING PARTS: SCRAP	CHANGED BY AND DATE	ENGRG APPD	GOVT APPD
A	1	1.00						LE0300-12	ON -1 ADDED EFF FOR QUAL TEST, DMSM, FC1, SCS, LEM-4, -5, -6, & LTA-1R	NOTED	NOT	REQD	HENDLER 8-15-66	X	X
		1.00 1.10							SHEET 1.00 OF 4 WAS 1.00 OF 3 + ADDED SHEET 1.10	NOT REQD					

FOR CONTINUATION OF REVISIONS SEE SHEET _____

GRUMMAN AIRCRAFT ENGRG CORP., BETHPAGE, L. I., NEW YORK

SIZE	CODE IDENT NO.		
B	26512	LDW300M11809	A
SCALE NONE			SHEET 1.10

ENG 77.3 5-66

01

NAS 9-1100

QTY PER ASSEMBLY	CODE IDENT	PART NO.	I&T	NOMENCLATURE OR DESCRIPTION	MATERIAL	GOVT SPEC	COML SPEC	STOCK SIZE	PROCESS SYM	FINISH NO.	ZONE
1	17910		E	PELLET	SEE NOTE #2						
1		LDW300M11809-3	E	PLUG	AL ALLOY	QQ-A-261/266	2014-T6511/T-51	1 DIA X 1/2	FP, T	88	
		LDW300M11809-1	E	PLUG ASSY					NONE	NONE	
-1											

SYM OR NO	PROCESS OR FINISH	GRUMMAN SPEC OR MILITARY SPEC	SYM OR NO.	PROCESS OR FINISH	GRUMMAN SPEC OR MILITARY SPEC	SYM OR NO.	PROCESS OR FINISH	GRUMMAN SPEC OR MILITARY SPEC
						FP	ZYGLO	MIL-I-6866
						88	ANODIZE	LSP-14-8838
						T	THREADING	MIL-S-7742

I & T: IDENTIFICATION AND TRACEABILITY IN ACCORDANCE WITH : NONE

GRUMMAN AIRCRAFT ENGRG CORP, BETHPAGE, L. I., NEW YORK

SIZE	CODE IDENT NO.	
B	26512	LDW300M11809

SCALE NONE

SHEET 2.01

ENG 77.2 7-65

01

NAS 9-1100

GRUMMAN AIRCRAFT ENGINEERING CORP.
CODE IDENT NO. 26512

ENG 32.2 REV 3-65

ENGINEERING ORDER

DWG. NO. LEO300- | EO NO. 12
CONTROL INFO NO. LDW300-109

ADD TO DWG. MODEL BLOCK, FOR EACH DASH Nº, THE NEXT ASSY & EFFECTIVITY AS SHOWN.

MODEL	MODULE	REQD PER MODULE
LEM	LTA-IR(14)	2
	LEM-6 (36)	2
	LEM-5 (35)	2
	LEM-4 (34)	2
	SCS (70)	2
	FCI (FC)	2
	DMSM (340)	1
LEM	QUAL. TEST (70)	2

DWG Nº	DASH Nº	NEXT ASSY	CHG LTR
LDW300-11804	-11	LDW300-28806	A1
-11806	-1	-21805	A1
-11809	-5	-28801	B3
-11815	-1	-28802	B1
-11817	-11	-28807	B1
-11818	-3	-28806	C1*
-11820	-13	-21808	B2
LDW300-11822	-11	-21809	B1
LDW300M11809	-1	-28800	A1
M11819	-1	-28806	A1
M11821	-3	-28802	A1
M11822	-1	-21805	A1
M11823	-1	-28806	A1
M11824	-1	-21805	A2
M11825	-1	-28806	B3
M11826	-3	-28802	B1
M11828	-1	-28802	B1
M11831	-1	-28802	B1
M11832	-5	-28802	B2
M11833	-3	-28802	B1
M11835	-1	-28802	B1
M11836	-1	-28802	B1
M11839	-1	-28802	B1
M11842	-3	-28801	B1
M11847	-7	-21804	A5
M11848	-1	-21809	A3
M11849	-3	-28807	B1
M11851	-1	-28806	B1
M11852	-3	-28806	B3
M11853	-1	-28800	B1
M11854	-1	-28806	B2
M11856	-1	28806	B2
M11857	-3	-28801	A4
LDW300M11859	-1	LDW300-28801	B1

DWG Nº	DASH Nº	NEXT ASSY	CHG LTR
LDW300M11860	-1	LDW300-28801	A3
M11861	-3	-28806	B1
M11865	-3	-28806	B2
M11866	-3	-28806	B3
M11868	-3	-28806	B2
M11869	-3	-28806	B3
M11872	-5	-28801	B1
M11873	-3	-28806	C2
M11874	-1	-28806	B1
M11875	-5	-28806	B1
M11877	-1	-28800	A1
M11880	-3	-28801	A3
M11883	-1	-28806	B1
M11887	-3	LDW300-28806	B1
M11888	-1	LDW300P11816	B1
M11889	-1	LDW300-28806	B1
M11891	-3	-21804	B1
M11893	-1	-28800	A1
M11896	-1	-28806	B2
M11897	-1	-28806	B2
LDW300M11899	-1	-28806	C1
LDW300P11801	-3	-28802	B1
P11802	-1	-28806	B1
P11803	-3	-28806	B1
P11804	-3	-28801	A3
P11809	-3	-28802	B1
P11815	-1	-28806	B1
P11816	-5	-28800	A3
P11817	-1	-21805	A1
LDW300P11819	-1	LDW300-28807	A1

* CHG NO WAS B1 (REF E.O. C1 ON LDW 300-11818)

DETAIL SPEC REQ | CL I ENGRG CHG | CL II ENGRG CHG

REASON FOR EO: UPDATE EFFECTIVITY

DESCRIPTION OF EO: IN MOD BLK. ADDED EFF FOR QUAL TEST, DMSM, FCI, SCS, LEM-4, -5-6, LTA-IR

GAEC EO RELEASE

MODEL	EFFECTIVITY: PROCURING ACTIVITY NO.	GAEC UNIT NO.	SUB CONTR UNIT NO.
LEM	NOTED ABOVE		

DRAWING CHANGE REQD: REVISE DWG	RECORD EO	DISPOSITION OF PARTS: NOT REWORK	REQD SCRAP
✓			

APPROVED BY	DATE	RELIAB. GROUP	GROUP LEADER	STRESS GROUP	LIAISON ENGRG	PROJ ENGRG
LAO	3-14-66		3/15/66		3/24	3-24-66

PRIORITY: C | DRAWING TITLE: NOTED | DRAWING NO.: LEO 300- | EO NO. 12

JED BY G. KAMMERER X-1671 3/14/66 SECTION GN&C GROUP NO. 300 PL 35

NAS 9-1100

01

GRUMMAN AIRCRAFT ENGINEERING CORP.
CODE IDENT NO. 26512

ENG 32.2 REV 3-65

ENGINEERING ORDER

DWG. NO. LEO300 | EO NO. 14
CONTROL INFO NO. LDW300-189

*USE NEXT AVAILABLE NOTE NO.

ADD NOTE * "AUTHORIZED BY CCA*237 (LTR BG 54-66-287)."

ADD TO MODEL BLOCK, FOR DASH NOS. NOTED, THE EFF. AS SHOWN ON THE FOLLOWING DWGS.

LEM	M.S.C. LAB (*) (SUBQ) SEE NOTE *	1
MODEL	MODULE OR END ITEM	QTY.

PART NO.	DASH NO.	NEXT ASSY.	CHG LETTER
LDW300-11803△	-1	LDW390-21056	B1
-11806△	-1	LDW300-28805	A2
-11809△	-3	-21801	C1
-11811△	-3	-21801	C4
-11812	-21	-21800	C3
-11817△	-11	-21809	C1
-11818△	-3	-21806	C3
-11820△	-13	-21808	C1
-11824△	-1	-21806	B2
-11825△	-1	-21801	A1
-11828△	-3	-21802	C1
LDW300-11831	-11	-21806	A2
LDW300M11800△	-1	-21802	A1
M11809△	-1	-21800	B1
M11821	-5	-21802	B1
M11822	-3	-28805	B1
M11823△	-1	-21806	B1
M11824	-3	-28805	B1
M11825	-3	-21806	C4
M11826△	-1	-21802	C1
M11827	-3	-21808	C1
M11831	-3	-21802	C1
M11832	-7	-21802	C1
M11833△	-3	-21802	C1
M11835△	-1	-21802	C1
M11836△	-1	-21802	C1
M11839△	-1	-21802	C1
LDW300M11842△	-1	LDW300-21801	C1

PART NO	DASH NO.	NEXT ASSY	CHG LETTER
LDW300M11847△	-7	LDW300-21304	B2
M11848△	-1	-21809	B1
M11849△	-3	-21807	C1
M11851△	-1	-21806	C1
M11852△	-3	-21806	C1
M11853△	-1	-21800	C1
M11854	-3	-21806	C1
M11855	-3	-21806	B2
M11856	-3	-21806	C1
M11857△	-1	-21801	B1
M11859	-3	-21801	C1
M11860△	-1	-21801	B1
M11861△	-1	-21806	C1
M11863△	-1	-21800	B2
M11865△	-3	-21806	C1
M11866	-5	-21806	C1
M11868△	-3	-21806	C1
M11869△	-3	-21806	C1
M11872△	-5	-21801	C1
M11873△	-3	-21806	D1
M11874△	-1	-21806	B1
M11875△	-3	-21806	C1
M11877△	-1	-21800	B1
M11880	-3	-21801	B2
M11881△	-1	-21806	C1
M11883△	-1	-21806	B2
M11885	-3	-21806	B2
M11887△	-3	LDW300-21806	C1
M11888△	-1	LDW300P11816	C1
LDW300M11828△	-1	LDW300-21802	C1

△ IN MODEL BLOCK FOR CRIT. ENVIR. TEST CHANGE QUAN. (3) TO (2).

▲ USE APPLICABLE DASH NO IN DESCRIPTION OF EO

DETAIL SPEC REQ | CL. I ENGRG CHG | CL. II ENGRG CHG

REASON FOR EO: UPDATE EFFECTIVITY PER CCA*237 (LTR BG 54-66-287)

DESCRIPTION OF EO: FOR - ▲ IN MOD. BLK. ADDED EFF. M.S.C. LAB, SEE NOTE *. & FOR CRIT. ENVIR. TEST QUAN. (2) WAS (3).

GAEC EO RELEASE: 6/16

MODEL	EFFECTIVITY: PROCURING ACTIVITY NO.	GAEC UNIT NO.	SUB CONTR UNIT NO.
LEM	NOTED	ABOVE	

DRAWING CHANGE REQD: REVISE DWG ✓ | RECORD EO | DISPOSITION OF PARTS: REWORK NOT REQD | SCRAP | APPROVED BY: AO | DATE 6/30/66 | SUPPORT | RELIAB. GROUP | GROUP LEADER 6/30/66 | STRESS GROUP 6-30 | LIAISON ENGRG | PROJ ENGRG 7-1-66

PRIORITY: C | DRAWING TITLE: NOTED | DRAWING NO.: LEO 300- | EO NO. 14

ISSUED BY FRANK PEPE x1672 6/29/66 SECTION GN&C GROUP NO. 300 PI. 35

MAS 9-1100

01

GRUMMAN AIRCRAFT ENGINEERING CORP.
CODE IDENT NO. 26512

ENGINEERING ORDER

ENG 32.1 REV 3-65

DWG. NO. LDW300M11809	EO NO. B2
CONTROL INFO NO. LDW300-206	

ON-1 REVISE QUAN. FOR EFF. AS SHOWN:

MODEL	NEXT ASSY	MODULE	REQD PER MODULE	
LEM	LDW300-28800	LEM-3(33)	2	WAS(4)
		LEM-2(32)	2	WAS (4)
		LEM-1(31)	2	WAS (4)
	LDW300-28800	LTA-8(18)	2	WAS (4)
	LDW300-21800	FMES	2	WAS (4)
		LMS-2	2	WAS (4)
		DMSM	1	WAS (2)
		LMS-1	2	WAS(4)
		CRIT. ENVIR. TEST	2	WAS (6)
		M.I.T. LAB SEE NOTE #1	2	WAS (4)
LEM	LDW300-21800	LTA-1 (11)	2	WAS(4)

LDW300M11809-1

*EXCESS PARTS MAY BE USED FOR ADDITIONAL EFFECTIVITY

6

DETAIL SPEC REQ	CL II ENGRG CHG	CL I ENGRG CHG

REASON FOR EO: UPDATE EFFECTIVITY

DESCRIPTION OF EO: ON-1 MOD. BLK. QUAN. (2) WAS (4) FOR LTA-1(11), M.I.T. LAB, LMS-1, LMS-2, FMES, LTA-8(18), LEM-1(31), LEM-2(32), LEM-3(33), DMSM (1) WAS (2), CRIT. ENVIR. TEST (2) WAS (6)

GAEC EO RELEASE: RTP 7/20/66

MODEL	PROCURING ACTIVITY NO.	GAEC UNIT NO.	SUB CONTR UNIT NO.
LEM	NOTED		

DRAWING CHANGE REQD		DISPOSITION OF PARTS		APPROVED BY								
✓ REVISE DWG	RECORD EO	NOTED* REWORK	SCRAP	DATE	7-20-66	7-30	8/4	7/26/66	7-21		8-8	7-22-66
						~~SUPPORT~~ WE	RELIAB. GROUP	GROUP LEADER	STRESS GROUP	LIAISON ENGRG	PROJ ENGRG	~~ENGR~~

PRIORITY: C

DRAWING TITLE: PLUG - STAB. & CONT. - TRANSLATION CONT. MODE SHIFT HANDLE

DRAWING NO. LDW300M11809

EO NO. B2

ISSUED BY FRANK PEPE x1671 7/20/66 SECTION GN&C GROUP NO. 300 PL 35

01

NAS 9-1100